

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of heat treating a turbine rotor disk varying in cross sectional shape from a relatively thick radially inner portion to a relatively thinner radially outer portion to obtain different radial properties at different radial locations in the rotor disk comprising:

- a) heating the rotor disk for a period of from 4 to 10 hours at a temperature of 1800°F;
- b) cooling the rotor disk to a temperature of about 1550°F at a rate of from 1° to 5°F/min;
- c) holding the rotor disk at a stabilization temperature of about 1550°F for a period of from about 2 to about 4 hours such that radially outer portions of the disk are exposed to said stabilization temperature for longer periods of time than radially inner portions of the rotor disk;
- d) cooling the rotor disk to room temperature at a rate of 20° - 40°F/min;
- e) precipitation aging the rotor disk by heating the rotor disk to temperature of 1325°F for 8 hours, and
- f) cooling the rotor disk;

wherein creep and creep crack growth resistance are enhanced at radially outer locations of the rotor disk and strength is enhanced at radially inner locations of the rotor disk.

- 2. (Original) The method of claim 1 wherein step a) is carried out for 4 hours.
- 3. (Canceled)
- 4. (Original) The method of claim 1 wherein step c) is carried out for 2 hours.
- 5. (Canceled)

6. (Previously Presented) The method of claim 1 wherein step d) is carried out by cooling the rotor disk at a rate of about 25°F/min.

7. (Original) The method of claim 1 wherein step f) is carried out by furnace cooling the rotor disk at a rate of 100°F/hour to 1150°F, holding it at 1150°F for 8 hours and then air cooling the rotor disk to room temperature.

8-19. (Canceled)